

PEER REVIEWED PUBLICATIONS BY OWEN R. COOPER, UNIVERSITY OF COLORADO

A total of 109 peer-reviewed publications (22 as first author) with an h-index of 53, as compiled by Web of Science.
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109. Ziemke, J. R., and **O. R. Cooper** (2019): Tropospheric Ozone [in "State of the Climate in 2019"]. *Bull. Amer. Meteor. Soc.*, 101 (8), Si–S429 <https://doi.org/10.1175/2020BAMSSStateoftheClimate.1>
108. Chang, K.-L., **O. R. Cooper**, A. Gaudel, I. Petropavlovskikh and V. Thouret (2020), Statistical regularization for trend detection: An integrated approach for detecting long-term trends from sparse tropospheric ozone profiles, *Atmos. Chem. Phys.*, 20, 9915–9938, <https://doi.org/10.5194/acp-20-9915-2020>
107. Gaudel, A., **O. R. Cooper**, K.-L. Chang, I. Bourgeois, J. R. Ziemke, S. A. Strode, L. D. Oman, P. Sellitto, P. Nédélec, R. Blot, V. Thouret, C. Granier (2020), Aircraft observations since the 1990s reveal increases of tropospheric ozone at multiple locations across the Northern Hemisphere. *Sci. Adv.* 6, eaba8272, DOI: 10.1126/sciadv.eaba8272
106. Xue, L., A. Ding, **O. Cooper**, X. Huang, W. Wang, D. Zhou, Z. Wu, A. McClure-Begley, I. Petropavlovskikh, M. O. Andreae, C. Fu (2020), ENSO and Southeast Asian biomass burning modulate subtropical trans-Pacific ozone transport, *National Science Review*, nwaa132, <https://doi.org/10.1093/nsr/nwaa132>
105. **Cooper, O. R.**, M. G. Schultz, S. Schröder, K.-L. Chang, A. Gaudel, G. Carbajal Benítez, E. Cuevas, M. Fröhlich, I. E. Galbally, D. Kubistin, X. Lu, A. McClure-Begley, S. Molloy, P. Nédélec, J. O'Brien, S. J. Oltmans, I. Petropavlovskikh, L. Ries, I. Senik, K. Sjöberg, S. Solberg, T. G. Spain, W. Spangl, M. Steinbacher, D. Tarasick, V. Thouret, X. Xu (2020), Multi-decadal surface ozone trends at globally distributed remote locations, *Elem Sci Anth*, 8(1), p.23. DOI: <http://doi.org/10.1525/elementa.420>
104. Tarasick, D. W., I. E. Galbally, **O. R. Cooper**, M. G. Schultz, G. Ancellet, T. Leblanc, T. J. Wallington, J. Ziemke, X. Liu, M. Steinbacher, J. Staehelin, C. Vigouroux, J. W. Hannigan, O. García, G. Foret, P. Zanis, E. Weatherhead, I. Petropavlovskikh, H. Worden, M. Osman, J. Liu, K.-L. Chang, A. Gaudel, M. Lin, M. Granados-Muñoz, A. M. Thompson, S. J. Oltmans, J. Cuesta, G. Dufour, V. Thouret, B. Hassler, T. Trickl and J. L. Neu (2019), Tropospheric Ozone Assessment Report: Tropospheric ozone from 1877 to 2016, observed levels, trends and uncertainties. *Elem Sci Anth*, 7(1), DOI: <http://doi.org/10.1525/elementa.376>
103. Ziemke, J. R., and **O. R. Cooper** (2019): Tropospheric Ozone [in "State of the Climate in 2018"]. *Bull. Amer. Meteor. Soc.*, 100(9), S58-S60, doi:10.1175/2019BAMSSStateoftheClimate.1
102. Chang, K.-L., **Cooper, O. R.**, West, J. J., Serre, M. L., Schultz, M. G., Lin, M., Marécal, V., Josse, B., Deushi, M., Sudo, K., Liu, J., and Keller, C. A. (2019), A new method (M^3 Fusion v1) for combining observations and multiple model output for an improved estimate of the global surface ozone distribution, *Geosci. Model Dev.*, 12, 955-978, <https://doi.org/10.5194/gmd-12-955-2019>.
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99. Lu, X., J. Hong, L. Zhang, **O. R. Cooper**, M. G. Schultz, X. Xu, T. Wang, M. Gao, Y. Zhao, Y. Zhang (2018), Severe surface ozone pollution in China: a global perspective, *Environ. Sci. Technol. Lett.* 5, 487-494.
98. Ziemke, J. R., and **O. R. Cooper** (2018): [Global Climate] Tropospheric Ozone [in "State of the Climate in 2017"]. *Bull. Amer. Meteor. Soc.*, 99(8), S56-S59, doi:10.1175/2018BAMSSStateoftheClimate.1
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96. Mills, G., H. Pleijel, C. S. Malley, B. Sinha, **O. R. Cooper** et al. (2018), Tropospheric Ozone Assessment Report: Present-day tropospheric ozone distribution and trends relevant to vegetation, *Elem. Sci. Anth.*, 6(1):47, DOI: <https://doi.org/10.1525/elementa.302>
95. Gaudel, A., **O. R. Cooper**, et al. (2018), Tropospheric Ozone Assessment Report: Present-day distribution and trends of tropospheric ozone relevant to climate and global atmospheric chemistry model evaluation, *Elem. Sci. Anth.*, 6(1):39, DOI: <https://doi.org/10.1525/elementa.291>
94. Fleming, Z. L., R. M. Doherty, E. von Schneidemesser, C. S. Malley, **O. R. Cooper** et al. (2018), Tropospheric Ozone Assessment Report: Present-day ozone distribution and trends relevant to human health, *Elem Sci Anth*, 6(1):12, DOI: <https://doi.org/10.1525/elementa.273>

93. Schultz, M. G., S. Schroeder, O. Lyapina, **O. R. Cooper**, et al. (2017), Tropospheric Ozone Assessment Report: Database and metrics data of global surface ozone observations, *Elem Sci. Anth.*, 5:58, DOI: <http://doi.org/10.1525/elementa.244>
92. Chang, K-L, I. Petropavlovskikh, **O. R. Cooper**, M. G. Schultz and T. Wang (2017), Regional trend analysis of surface ozone observations from monitoring networks in eastern North America, Europe and East Asia, *Elem Sci Anth.*, 5:50, DOI: <http://doi.org/10.1525/elementa.243>
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87. Sun, L., L. Xue, T. Wang, J. Gao, A. Ding, **O. R. Cooper**, M. Lin, P. Xu, Z. Wang, X. Wang, L. Wen, Y. Zhu, T. Chen, L. Yang, Y. Wang, J. Chen, and W. Wang (2016), Significant increase of summertime ozone at Mount Tai in Central Eastern China, *Atmos. Chem. Phys.*, 16, 10637-10650, doi:10.5194/acp-16-10637-2016, 2016
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